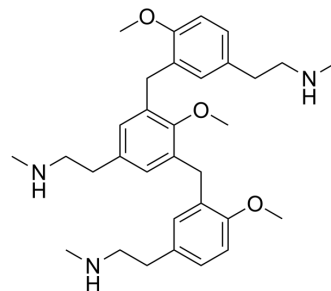


Compound 48/80

Cat. No.:	HY-115768		
CAS No.:	94724-12-6		
Molecular Formula:	C ₃₂ H ₄₅ N ₃ O ₃		
Molecular Weight:	519.72		
Target:	Others		
Pathway:	Others		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (192.41 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.9241 mL	9.6206 mL	19.2411 mL	
		5 mM	0.3848 mL	1.9241 mL	3.8482 mL	
10 mM		0.1924 mL	0.9621 mL	1.9241 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (4.81 mM); Clear solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (4.81 mM); Clear solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (4.81 mM); Clear solution; Need ultrasonic 					

BIOLOGICAL ACTIVITY

Description	Compound 48/80 (Poly-p-methoxyphenethylmethylamine) is widely used in animal and tissue models as a "selective" mast cell activator. Compound 48/80 acts at the mast cell membrane to stimulate trimeric G-proteins and induces degranulation via phospholipase C and D pathways ^{[1][2]} .
IC₅₀ & Target	Mast Cell Activator ^[1]
In Vitro	Compound 48/80 (poly-p-methoxyphenethylmethylamine), an agent commonly used to trigger degranulation of mast cells,

at concentrations of 5-20 µg/ml suppresses the proliferation of L1210 and Friend leukemic cells in vitro, inducing the formation of giant cells, which are polykaryons^[3].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Schemann M, et al. The mast cell degranulator compound 48/80 directly activates neurons. PLoS One. 2012;7(12):e52104.

[2]. Wang YH, Taché Y, Harris AG, Kreutner W, Daly AF, Wei JY. Desloratadine prevents compound 48/80-induced mast cell degranulation: visualization using a vital fluorescent dye technique. Allergy. 2005;60(1):117-124.

[3]. Darzynkiewicz Z, Carter S. Compound 48/80 impairs cytokinesis in murine leukemic cells. J Cell Physiol. 1984;119(1):1-6.

Caution: Product has not been fully validated for medical applications. For research use only.

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